# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102722\
Data File : VN075031.D
Acq On : 27 Oct 2022 10:30
Operator : JC\MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

Quant Time: Oct 28 02:12:15 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 27 09:48:49 2022
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 51.324 | -2.6 | 109 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.504 | 9.0 | 98 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.929 | 2.1# | 102 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 57.549 | -15.1 | 106 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.491 | 5.0 | 103 | 0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.400 | 3.2 | 102 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.297 | 5.4 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.601 | 0.8 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 48.262 | 3.5 | 105 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 214.452 | 14.2 | 97 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.924 | 4.2# | 102 | 0.00 |
| 13 | T | Acrolein | 250.000 | 209.673 | 16.1 | 91 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 49.684 | 0.6 | 102 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 238.713 | 4.5 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 294.028 | -17.6 | 131 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.856 | 2.3 | 102 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 46.781 | 6.4 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.623 | -1.2 | 106 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 47.255 | 5.5 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.622 | 0.8 | 106 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.373 | -0.7 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 254.641 | -1.9 | 105 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.532 | -1.1 | 108 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 254.190 | -1.7 | 110 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 52.537 | -5.1 | 111 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.161 | -0.3 | 106 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.206 | 1.6 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 244.309 | 2.3 | 102 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.696 | -3.4# | 108 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 48.438 | 3.1 | 104 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.582 | -5.2 | 109 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.244 | -2.5 | 111 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.885 | -1.8 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 52.725 | -5.5 | 107 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.998 | 2.0 | 106 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 53.166 | -6.3 | 106 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.231 | -8.5 | 109 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.520 | -5.0 | 107 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.129 | -4.3 | 106 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.199 | -2.4 | 105 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 51.589 | -3.2 | 105 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.178 | -2.4 | 107 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.781 | -5.6# | 105 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.699 | -5.4 | 110 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.829 | -5.7 | 108 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.734 | -1.5 | 107 | 0.00 |

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ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_N
**LabSampleId :**
VSTDCCC050

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 983.766 | 1.6 | 106 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 54.783 | -9.6 | 112 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 252.144 | -0.9 | 104 | 0.00 |
| 52 | CM | Toluene | 50.000 | 55.010 | -10.0# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 56.738 | -13.5 | 109 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 54.912 | -9.8 | 109 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.672 | -5.3 | 106 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 55.003 | -10.0 | 107 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.674 | -5.3 | 106 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 273.205 | -9.3 | 105 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 259.564 | -3.8 | 107 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.937 | -11.9 | 108 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 54.965 | -9.9 | 107 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 58.575 | -17.2 | 114 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 52.436 | -4.9 | 110 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 53.383 | -6.8 | 109 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 53.874 | -7.7 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 55.276 | -10.6# | 109 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 112.303 | -12.3 | 108 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 55.912 | -11.8 | 111 | 0.00 |
| 70 | T | Styrene | 50.000 | 57.060 | -14.1 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 56.557 | -13.1 | 111 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.426 | -2.9 | 109 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 48.710 | 2.6 | 107 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.710 | -5.4 | 104 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 52.095 | -4.2 | 106 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.128 | 1.7 | 107 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.352 | -6.7 | 112 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.939 | -1.9 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.881 | -5.8 | 109 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 55.601 | -11.2 | 116 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.939 | -1.9 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.686 | -3.4 | 109 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.460 | -6.9 | 111 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.465 | -8.9 | 112 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.885 | -11.8 | 113 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.024 | -6.0 | 111 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.889 | -5.8 | 111 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 57.619 | -15.2 | 114 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 52.908 | -5.8 | 109 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.270 | -2.5 | 107 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.491 | 5.0 | 101 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 55.457 | -10.9 | 111 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.839 | -3.7 | 113 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.003 | -4.0 | 104 | 0.00 |

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| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 53.314 | -6.6 | 109 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6